Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

# **Purchasing Receipts**

PO No	Supplier	Line Item No	Rei	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging
0038583	MES002- VC	1	1	611	MSTEEL-A2- BU 500X 1.250	AISI A2 Tool Steel Bar, 0.500 X 1.250 : MATERIAL: AISI A2 STEEL, ANNEALED CONDITION AS PER ASTM A681 receive fit				100	12/12/2017	100		S024352	Stock	12/18/2017	\$ 9.80 / ft	
		2				4130 Bar 0.500 X 3.00 : MATERIAL: AISI 4130N STEEL BAR PER MIL-S- 6758 OR AMS 6345/6348/6370/6528 receive ft				47		47		8024353	Stock	12/18/2017	\$ 29.95 / ft	(

Plex 12/18/2017 1:47 PM Dart. Dubois. Pascal

Shipping Order

13/12/2017

METAUX SOLUTIONS INC 2625 BOUL JACQUES CARTIER EST

LONGUEUIL, QUEBEC

Customer: 6323336

J4N 1L7

Tel.: 450 641-3330

Order Reference : 131157 : 38583

Ship

: PICK UP / PICK UP

Ship To

Same

Tel.: 1613 632-3336

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

Item No.	Description	Qty	Qty. Deliver	B/O Qty
	******* FACTURER E-MAIL ******** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N		0111	4
TP12A2	A-2 PLATE TFA 1/2" THICK	246	996	-5
	9 X 1.25" -0+0 X 140" R/L			
MP124130N	HT: PM83806 4130 NORM PLATE .500 THICK AMS 6345	11.6	11.6	20
	40 X 3" X 14"			
	HT: D0652			

SHIP JOURNEY COLLECT

5kid 2: 23x2'2x8 273165 2/2:12' x7" x7" (255/bs)

Shipping Package No		Ref.	:
Merchandise	Received:		

Shipping Order

13/12/2017

METAUX SOLUTIONS INC 2625 BOUL JACQUES CARTIER EST LONGUEUIL, QUEBEC

> DART AEROSPACE LTD 1270, ABERDEEN STREET

HAWKESBURY, ONTARIO

J4N 1L7

. Customer: 6323336

K6A 1K7

Tel.: 450 641-3330

Order

: 131157

Reference

: 38583

Ship

: PICK UP / PICK UP

Ship To

Same

Tel.: 1613 632-3336

Item No. Description Qty. Deliver B/O Qty Oty \*\*\*\*\*\*\* FACTURER E-MAIL \*\*\*\*\*\*\*\* SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 246 246 **TP12A2** A-2 PLATE TFA 1/2" THICK 9 X 1.25" -0+0 X 140" R/L HT: PM83806\_\_\_\_\_ 11.6 4130 NORM PLATE .500 THICK AMS 6345 MP124130N 40 X 3" X 14 HT: D0652

14-12-17

SHIP JOURNEY COLLECT
JP

A GOMEZ

Montrex Four minimax

	skid	, was promised to
る。	23" 22" 8	3 273165

Buno	lle		
2/2:12'	×7"	F×	" (255/bs)

Shipping	•	Ref.	*
Package No	1		
Merchandise i	Received:		

2625, Boul Jacques Carlier Est info@metauxsolutions.com Longueuil (Québec) J4N 1L7

T 450 641-3330

Ext: 1-800-967-2003

## **Métaux Solutions**

L'alliage de qualité et de rupidité!

### CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

14 Déc. 2017

Description:

4130 HR DESCALED AO PLATE AMS 6345 COND N OR

Zine Total: 1470.24 LB

1/2 P/C 36,000 X (144.000") RECTANGLE HEAT: D0652

ITEM: 508734

Specifications:

AMS 6345

ASTM A829 GR 4130 14

CHEMICAL ANALYSIS

C MN 0.33 0.5300

P S CU SI NI 0.016 0.001 0.19 0.27 0.10

0.27 0.10

MO 0.22

0.059

AL 0.03

CB 0.001

ULT TEN

RCPT: R287845

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES 

DESCRIPTION

KSI 89.0 80.0

YLD STR

KSI 129.0 129.0 104.0 81.0

%ELONG IN 02 IN IN AREA 18.0 18.0

22.0

%RED HARDNESS

DEVELOPED HARDNESS 042 RC

GRAIN SIZE :5 -

VACUUM DEGASSED THERMAL TREATMENT: OK

DECARB: OK AMS NO :2301 SEVERITY :0.0 FREQUENCY: 0.0

COMMENTS

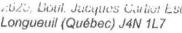
melted & mfg: usa

red ratio: 18

ITEM 2: 40 X 3" X 14" **COMMANDE: 131157** 

REF: 38583

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le materiel tencontre les spécifications énumérées.



info@metauxsolutions.com T 450 641-3330 Ext: 1-800-967-2003



### CERTIFICAT D'ANALYSE

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7

14 Déc. 2017

A2-05000 1/2 X 32	escription 1/4" X 140		PLATE	•	Shipped P	00		E	lack Ordrec 0.00		DLINE	
ASTM A-DFARS C PLATI Country o	ompliant ` E#: 41942	27B		PM	HEAT#	83806	In (		BHN :	207.00		
C - Cr -	0.9660 5.1620	Mn - Mo -	0.6010 0.9310	P - Cu -	0.0070 0.0900	S- V-	0.0006 0.2170	Si - W -	0.2700 0.0040	NI -	0.0990	

ITEM 1: 9 X 1,25" X 140"

COMMANDE: 131157

REF: 38583

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

# **PURCHASE ORDER** PO038583

Tel (613) 632-5200

Supplier:

MES002-VC Metaux Solutions

2625 boul Jacques-Cartiler Est

Longueuil

QC.

J4N 1L7 Canada Phone: 800 558 8858

Fax: 514 633 8044

Ship To:

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200 PO No:

PO Date:

PO038583 12/6/17

Due Date:

12/12/17

Purchase Order Revision:

Revision Date:

Ship-To Contact: Phone:

Via:

Ground Net 30

Pymt Terms:

Freight Terms:

Special

Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended
1	MSTEEL-A2- B0.500X1.25 0	AISI A2 Tool Steel Bar, 0.500 X 1.250 : MATERIAL: AISI A2 STEEL, ANNEALED CONDITION AS PER ASTM A681 receive ft	Firmed	12/12/17	100 ft			\$9.80/ <del>f</del> t	
Line item Note	TOLERANCE - CUT AT 1.25"	0+0" AS PER QUOTATION#1	6619						
2	M4130NB0.5 00X03.000	4130 Bar 0.500 X 3.00 : MATERIAL: AISI 4130N STEEL BAR PER MIL-S- 6758 OR AMS 6345/6348/6370/6528 receive ft	Firmed	12/12/17	47 ft	O ft	47 ft	\$29.95/ft	\$1,407.65

Grand Total: \$2,387.65

### **Order Notes**

**Procurement Quality Clauses** A005 right of entry A012 chemical and physical test report A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON **K6A 1K7** Canada

# **PURCHASE ORDER** PO038583

Tel (613) 632-5200

Supplier:

MES002-VC

**Metaux Solutions** 

2625 boul Jacques-Cartiler Est

Longueuil

QC

J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044

PO No:

PO038583

PO Date:

12/6/17

Due Date:

12/12/17

**Purchase Order** 

Revision:

**Revision Date:** 

Ship-To Contact:

Phone:



Ship To:

1270 Aberdeen Street

Hawkesbury

K6A 1K7 Canada

Phone: 613-632-5200

Via:

Ground Net 30

Pymt Terms: Freight Terms:

**Special Comments:** 

Items

Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MSTEEL-A2- B0.500X1.250	AISI A2 Tool Steel Bar, 0.500 X 1.250 : MATERIAL: AISI A2 STEEL, ANNEALED CONDITION AS PER ASTM A681 receive ft	Firmed	12/12/17	100 ft	O ft	100 ft	\$9.80/ft	\$980.00
Line Item Note	TOLERANCE -0+0" AS I CUT AT 1.25"	PER QUOTATION #166	19	S T 2					
2	M4130NB0.500X03.000	4130 Bar 0.500 X 3.00 : MATERIAL: AISI 4130N STEEL BAR PER MIL-S-6758 OR AMS 6345/6348/6370/6528 receive ft	Firmed	12/12/17	47 ft	O ft	47 ft	\$29.95/ft	\$1,407.65

Line Item Note 40 pcs cut at 14

Grand Total: \$2,387.65

**Order Notes** 

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/6/17 2:36 PM dart.lavoie.chantal

MINIM	TRANS	P.O. BOX 92,	CORNWALL, C 1-800-465-66	NTARIO K		INC.		DELIVERY RECEIPT REÇU DE LIVRAISON		
DATE	TRAILER - REMORQUE	ORIG.	DEST.		NIR	CVO	R	F	PRO.	
12-14-	2017   825	COR	COR			36-3104-3				
SHIPPER / EXPÉDIT			CONSIGNEE / C	CONSIGNATA						
METAUX S	OLUTIONS L. JACQUES CARTIER	FCT			OSPACE RDEEN S'	ייך		CODE	157	
LONGUEUI J4M 1L7	-		HAW		RY, ON	3) 632-52	00			
									R 126922954 : 1010859073	
JCT	ORIG. CARRIER / RE	ÇU DE PRO		JCT		TRANSFE	R TO / TRAN			
PCS	TYPE	DESCRI	PTION	<u></u>	-	WEIGHT / POID	S	****		
1 SK	W STC GENI SKID 22X2 CONSIGNEE DEC 18/17	3X8, BUND	LE 7X2			5281 SPOTS) ELIVER	B/L P.O.	PB20137	454	
						TPB				
TOTAL 1	DECLARED VALUE / VALEUR DÉCLA	RÉE DR	IVER / CHAUFFE	UR	DATE	TOTAL 5281		WINDOW /18/17	8.3-15	
BILL TO:		P	CS UN	IT II	N / ENTRÉE	OUT / SORTIE	CPC		RETURN	
JOURNEY H							C.O.D. C.R.			
18100 TRA KIRKLAND,	(		REC	PCS	DATE		C.O.D. FEE FRAIS DE C			
		(BS(B 8(IN) 10/3) 80/32 10 8/11	ANY LOSS OR DAMAG	E MUST BE NOTED	BY / PAR ON PROBILL AT TIME OF DI	ELIYERY	TOTAL			

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: <u>M5 Xee - A2</u> DATE:	
MATERIAL CERT REC'D: Ves	THICKNESS ORDERED: 0.500
QUANTITY RECEIVED: 1011	THICKNESS RECEIVED: 0.300
QUANTITY INSPECTED: LOCK	SHEET SIZE ORDERED: NIA
QUANTITY REJECTED:	SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	TIN	
CORRECT FINISH	N	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	O	N	A5+m A681
CORRECT THICKNESS	M	N	770.001
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # Pm 83806
CORRECT MATERIAL IDENTFICATION	CV	N	1/309 A 1 11 10 2000
CORRECT M# ON THE MATERIAL	(1)	N	
DOES THIS MATERIAL REQUIRE	V		
ENGINEERING SIGN OFF	Y	(8)	
DOES THIS REQUIRE AN		~	
EXTRUSION REPORT	Y	(1)	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	RM A HARDNE	SS CHECK.	
TYPE OF MATERIAL	HRC	HRB	DURA	DUR D	WEBSTER
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF #
INSPECTED BY:	pl DAS	ENGINEERING SIGNOFF (if required) SIGNED OFF BY:
DATE:	DEC 18 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

5

0

PURCHASE MATERIAL: AISLA2 TOOK STEEL, ANNEALED CONDITION

0

SPECIFICATION ASTM A681
PART NUMBER: MSTEEL-A2-8T.TTT

MSTEEL-A2-BT.TTT X W.WWW

WHERE "T.TT" = THICKNESS IN INCHES "W.WWW" = WIDTH IN INCHES

EG. 0.500" X 1.250" BAR = MSTEEL-A2-B0.500X1.250

PER ASTM A681 AS FOLLOWING

TOLERANCES:

U

(Width and Thickness Tolerances Width Tolerances)

				line			-			
	4		Jac In	Jer Jan			Over			
	To 1 (25.4), incl Over 1 to 3 (25.4 to 75), Incl Over 3 to 5 (75 to 122), incl Over 5 to 7 (127 to 175), incl Over 7 to 10 (728 to 254), incl Over 10 to 12 (254 to 305), incl	incl incl incl incl incl incl incl	0.01G (0.41) 0.034 (0.79) 0.047 (1.19) 0.063 (1.60) 0.078 (1.99) 0.044 (2.19)	(0.41) (0.79) (1.19) (1.60) (1.90)		00000	0.031 (0.79) 0.047 (1.19) 0.063 (1.60) 0.094 (2.39) 0.125 (3.18)			
Specified		11	Thickness Tolerances for Specified Thicknesses, in (mm)	ecified Thickness	es, in (mm)		(dg.C) aci			
in (max)	To 54 (6.44), incl	Over 15 to 72 (6.4 to 12.7), met	Over 1/2 to 1 (12.7 to 25.4), mel	Over 1 to 2 (25.4 to 50.8), incl		Over 2 to 3 50 8 to 76), mal	-	Over 3 to 4		
	Under Over	Under Over	Under Over	Under	Over	Under Dua	-	0		
To 1 (25.4),	0 006 (0 15) 0.010 (0.25	0.008 (0.20) 0.012 (0.30	1 005 10 15 0 010 10 25 0 008 (0 20) 0.012 (0 30) 0.010 (0 25) 0.016 (0 41)	-	-	_	_	-		
Over 1 to 2 (25.4 to 50 8), incl	0 006 (0 15) 0 014 (0.36)	0.008 (0.20) 0.016 (0.41	6 056 (0 15) 0 014 (0.36 0 006 to 20) D.018 (0.41) 0.010 (0.25) 0 020 (0.51) 0 020 (0.51) 0 024 (0 51)	0.020 (0.51) 0.02						
Over 2 to 3 (50.8 to 765.incl	0.000 (0.15)0.013 (0.46)	0,008 (0.20) 0.020 (0.51	1.000 (O 15)0 O18 (O 46)0 200 (O 20)0 020 (O 51)0 O10 (D 25)0 024 (O 61)0 027 (O 51)0 027 (O 69)0 020 (O 55)0 034 (O 86)	0.020 (0.51)0 92	7 (0 69) 0,026	(0 00)0 034 (0	(98)			
Over 3 to 4 (76 to 102), incl		0.010 (0.25) 0.022 (0.56)	6 008 10 20) 0 220 (0.51) 0 010 (0.25) 0 022 (0.56) 0 013 10 33) 0 024 (0.61) 0 024 (0.61) 0 030 (0.76) 0 030 (0.76) 0 032 (0.81) 0 042 (1.07) 0 040 (1.02) 0.048 (1.23)	0.024 (0.61) 0.03	0 (0.76) 0.032	(0.81) 3 042 (1	07)0.040 (1	32)0.048 (1.22)		
Over 4 to 5 (102 to 127) incl	0.010 (0.25)0.020 (0.51)	0.012 (0.30) 0.024 (0.61)	6 010 (0 25) 0.020 (0.51) 0.012 (0.50) 0.024 (0.61) 0.015 (0.38) 0.020 (0.76) 0.027 (0.89) 0.035 (0.81) 0.032 (0.81) 0.042 (1.07) 0.042 (1.07) 0.050 (1.27)	0.027 (0.89)0 039	25 (0.88) 0.035	(0.81)0.042 (1	07)0 042 (1	07) 0.050 (1.27)		
0ver 5 to 6 (127 to	0.012 (0.30) 0.020 (0.51)	0.014 (0.36)0.030 (0.76)	6 012 (0 30) 00 020 (0.51) 0.014 (0 36) 0.000 (0 76) 0.016 (0 46) 0.000 (0 76) 0.000 (0 76) 0.036 (0 89) 0.000 (0 75) 0.000 (0 75) 0.000 (0 75) 0.000 (0 75)	5 030 ra 78) a 038	8 (0.49) 0.03B	(0.91) 0.046 (1	17) 0 044 (1.	12,0.054 (1.37)		
152) erel					_	_			A NEW ISSUE	80
(152 to	0.014 (0.35)0.027 (0.69)	0.016 (0.41)0.032 (0.81)	6 014 (0.38) 0.627 (0.88) 0.016 (0.47) 0.052 (0.81) 0.018 (0.41) 0.055 (0.80) 0.016 (1.42) 0.056 (0.81) 0.048 (1.22) 0.046 (1.17) 0.056 (1.42)	0,030 (0.76)0.040	0 (1.02) 0.036	(0.91) 0.048 (1	22)0.046 (1	7)0,056 (1.42)	REV.	
173) incl						_	_		DESIGN	
Over 7 to 10		0.020 (0.51) 0.035 (0.89)	C UT8 10.48] D CSO (O 76 ID C20) (O 51) (O OS5 (O 62) 30.024 (D 61) (D 040 11.02) (D 05) (D 89) (D 045 (1 14) (O 040 (1 02) 0 054 (1 37) (D 052 (1 32) (D 064 11 52)	0.035 (0.89) 0.045	5 (1 14)0.040	(1 02) 0.054 (1	3730 052 (1.3	230 062 11 621	DRAWN	
254), incl								1	CHECKED	
Over 10 to 12	25 4 7 10 10 17 17 10 10 17 10 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	3.025 (0.64) 0.040 (1.02)	0.030 (0.76) 0.045 (1.14)	0.040 (1.02)0 050	(127)0 046	(1.17)2 060 (1	5230.056.01.4	230.072 (1 H3)	MFG. APPR.	
305), Incl					_				APPROVED	
A Cast of and									DE APPR	

8

REV. A SHEET 1 OF 1

COPYRIGHT © 2012 BY DART AEROSPACE LTD

12.09.06

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AISI A2 TOOL STEEL

DART AEROSPACE LTD
HAWKESBURY, ONITARIO, CANADA
DRAWING NO.
MSTEEL-A2
SHEE

S S S S

AP 12.09.06 BY DATE

Z012 -09- 12

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	M4130NBO.500X03.000) DEC 18 2017	PO/BATCH NO. 038583/50243
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	47"	THICKNESS ORDERED: 0.500 THICKNESS RECEIVED: 0.500 SHEET SIZE ORDERED: 1/A SHEET SIZE RECEIVED: 1/A

DESCRIPTION	NC (Che Y/I	eck	COMMENTS
SURFACE DAMAGE	VI	N	
CORRECT FINISH	(1)	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	M	X	
CORRECT MATERIAL PER M-DRAWING	(4)	N	Am 56345
CORRECT THICKNESS	(7)	N	7141 760 75
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	(V)	N	Hotel 00652
CORRECT MATERIAL IDENTFICATION	(2)	N	(10th 1002
CORRECT M# ON THE MATERIAL	M	N	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Y	R	
DOES THIS REQUIRE AN	1	1	
EXTRUSION REPORT	YC	N)	

CUT SAMPLE PIECE OF	MATERIAL A	AND PREFOR	RM A HARDNE	SS CHECK.	
TYPE OF MATERIAL	HRC	HRB	DURA	DUR D	WEBSTER
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	1	ENGINEEDING SIGNOFF (1)
INSPECTED BY:	DAS 9	ENGINEERING SIGNOFF (if required) SIGNED OFF BY:
DATE:	DEC 18 2017	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

PURCHASE MATERIAL: AISI 4130N STEEL BAR PER MIL-S-6758 OR AM 6345/6348/6370/6528

PART NUMBER:

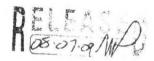
M4130N-B T.TTT | X | WW.WWW |

THICK

WHERE T.TTT = THICKNESS (IN INCHES) WW.WWW = WIDTH (IN INCHES)

EG. 0.5" X 3.0" BAR = M4130N-B0.500X03.000

**WIDTH** 



В	ADD AN	AS 6345		PH	08.05.05
Α	NEW IS	SUE	DS	01.06.08	
REV.			DESCRIPTION	BY	DATE
DESIG	N	A	DART AERO	SPACEL	TD
DRAW	VN Fet		HAWKESBURY, O		
CHECK	ŒD	ip	DRAWING NO.		REV. B
MFG. A	PPR.	NIM	M4130N-B		SHEET 1 OF 1
APPRO	VED	M	TITLE		SCALE
DE APP	PR.		4130 BAR		NTS
DATE 08.05.05			COPYRIGHT © 2001 BY THIS DOCUMENT IS PRIVATE AND CONTIDENTIAL AND NOT TO BE USED FOR ANY PURPOSE OR COPIED OR WARTEN PERMISSION FRO	IS SUPPLIED ON THE EXPRESS COMMUNICATED TO ANY OTHE	CONDITION THAT IT IS